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which essentially have the nucleotide sequences stated in SEQ ID. No. 1, SEQ ID No. 2 and SEQ ID No. 3] encoding an amino acid sequence selected from the group consisting of SEQ ID. No. 1, SEQ ID No. 3, and SEQ ID No. 6-17, together with a promoter selected from the group consisting of CaMV 35S, patatin I and the GBSS promoter.

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4. (Twice Amended) Fragment of the potato gene coding for granule-bound starch synthase (GBSS), said fragment [being selected from the group consisting of fragments which essentially have the nucleotide sequences stated in SEQ ID. No. 1, SEQ ID No. 2 and SEQ ID No. 3] encoding an amino acid sequence selected from the group consisting of SEQ ID. No. 1, SEQ ID No. 3, and SEQ ID No. 6-17.

6. (Twice Amended) Isolated potato gene coding for granule-bound starch synthase in potato (GBSS gene) [having essentially the nucleotide sequence stated in SEQ ID No. 5], wherein said synthase has an amino acid sequence selected from the group consisting of SEQ ID No. 18, SEQ ID NO. 19, and SEQ ID No.-20.

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7. (Twice Amended) Antisense construct for inhibiting expression of the gene for granule-bound starch synthase in potato, comprising

- a) a promoter,
- b) a fragment of the potato gene coding for granule-bound starch synthase inserted in the antisense direction, said fragment [being selected from the group consisting of fragments having essentially the nucleotide sequences stated in SEQ ID No. 1, SEQ ID

No. 2 and SEQ ID No. 3] encoding an amino acid sequence selected from the group consisting of SEQ ID No. 1, SEQ ID No. 3, and SEQ ID No. 6-17.

8. (Amended) Antisense construct as claimed in claim 7, characterized in that the promoter [essentially has the sequence stated in SEQ ID No. 4] is an isolated promoter from the potato gene coding for granule-bound starch synthase (GBSS).

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9. (Amended) Antisense construct as claimed in claim 7, characterized in that the promoter is selected [among the] from the group consisting of the CaMV 35S promoter and the patatin I promoter.

10. (Twice Amended) Vector comprising a fragment of the potato gene coding for granule-bound starch synthase (GBSS), said fragment [being selected from the group consisting of fragments having essentially the nucleotide sequences stated in SEQ ID No. 1, SEQ ID No. 2 and SEQ ID No. 3] encoding an amino acid sequence selected from the group consisting of SEQ ID No. 1, SEQ ID No. 3, and SEQ ID No. 6-17, and inserted in the antisense direction in relation to a promoter immediately upstream from the gene fragment.

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21. (Amended) A method for tuber-specific expression of a gene product in potato, comprising transforming said potato with a DNA molecule comprising an isolated

4 4 promotor from the potato gene coding for granule-bound starch synthase (GBSS)[, said
promoter having essentially the nucleotide sequence stated in SEQ ID No. 4].

Please add the following new claims:

--22. Antisense construct as claimed in claim 7, characterized in that the promoter
has the sequence stated in SEQ ID No. 4.--

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--23. A method for tuber-specific expression of a gene product in potato,
comprising transforming said potato with a DNA molecule comprising an isolated
promotor from the potato gene coding for granule-bound starch synthase (GBSS), said
promoter having the nucleotide sequence stated in SEQ ID No. 4.--

REMARKS

Entry of the foregoing and further and favorable reconsideration of the subject
application pursuant to and consistent with 37 C.F.R. §1.116 are respectfully requested.

By the present amendment, claims 1, 4, 6-8, 10, and 21 have been amended to
delete the term "essentially" as suggested by the Examiner. New claims 22 and 23 are